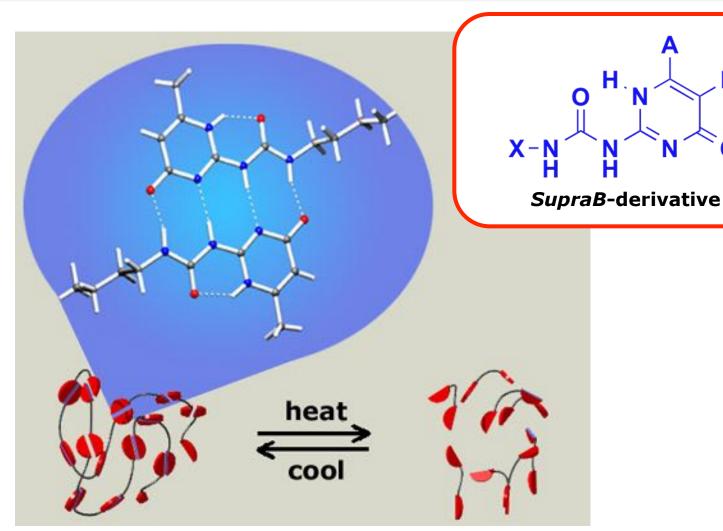
SupraPolix



supramolecular polymers in action

SupraB™: unique supramolecular building block





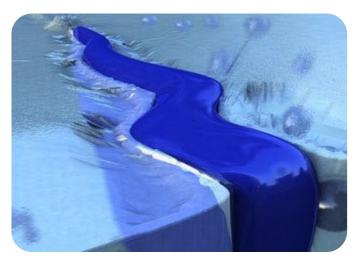
Meijer and Sijbesma, 1996

SupraB™: self-healing in action

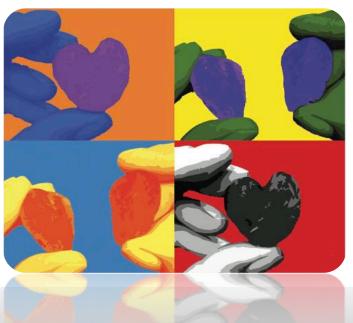


Possible self-healing strategies:

- 1. monomer/catalyst reservoirs in material
- 2. temperature switchable flow
- 3. damage induced adhesion





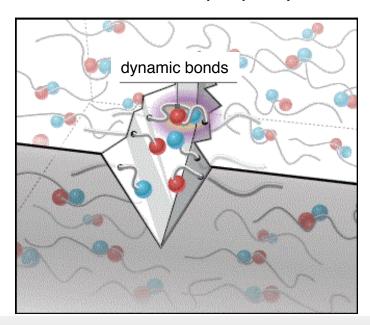


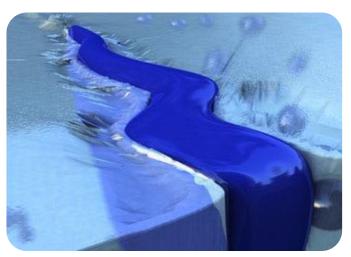
SupraB™: self-healing in action



SupraB self-healing strategies:

- 1. monomer/catalyst reservoirs in material
- 2. temperature switchable flow
- 3. damage induced adhesion
 - <u>no</u> chemicals/catalysts/plasticizers
 - intrinsic material property



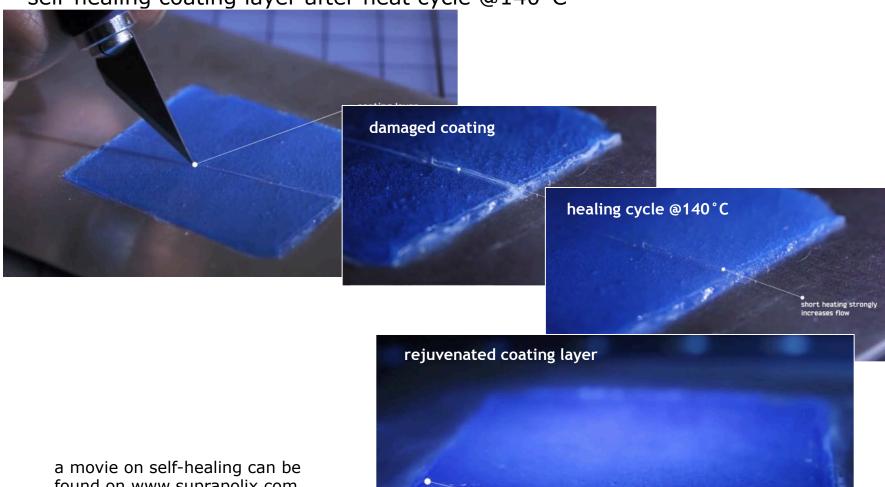




SupraB™: self-healing coatings



self-healing coating layer after heat cycle @140°C

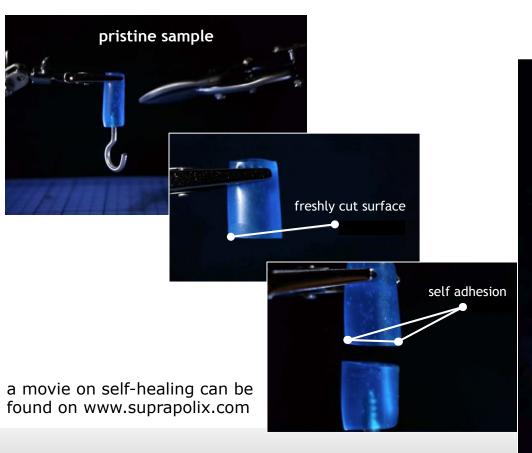


found on www.suprapolix.com

SupraB™: autonomous self-healing



- only freshly cut surfaces are adhesive and can be bonded again
- mechanical damage + pressure is trigger
- materials can be solution or melt-processed





SupraB™: a variety of self-healing grades



- SupraB-polymers are specialty TPU's
- processing is performed from the melt or solvent based formulations
- SupraB-polymers are transparent and can easily be colored with pigments or dyes
- hardness of self-healing SupraB-polymers range from Shore A50 to 75



SupraPolix: a young company



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